Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E

PE 0605976F I Facilities Restoration and Modernization - Test and Evaluation Support

Management Support

, ,												
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	44.160	46.955	40.518	-	40.518	42.978	43.795	44.349	45.142	Continuing	Continuing
6606MC: Facility Restoration and Modernization - T&E	-	44.160	46.955	40.518	-	40.518	42.978	43.795	44.349	45.142	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

Restoration includes repair and replacement work to restore damaged facilities due to accident or failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new, higher standard (including regulatory changes), to accommodate new functions, or to replace building components that typically last more than 50 years (such as foundations and structural components). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. These restoration/modernization funds support the following Air Force test organizations and their associated test and evaluation facilities, including: remote locations, 96th Test Group (TG) at Holloman AFB, NM, the 96th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, the 412th TW at Edwards AFB, CA, 96 TG Landing Gear Test Facility (LGTF) at Wright-Patterson AFB, OH, Hypersonic Wind Tunnel 9 at White Oak, MD, and the National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, CA.

This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	44.160	46.955	40.787	-	40.787
Current President's Budget	44.160	46.955	40.518	-	40.518
Total Adjustments	-	-	-0.269	-	-0.269
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-	-	-0.269	-	-0.269

C. Accomplishments/Planned Programs (\$ in Millions)FY 2014FY 2015FY 2016Title: Facility restoration and modernization at the 96 TG0.8270.4310.740

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016	
Description: Facility restoration and modernization at the 96th TG.					
FY 2014 Accomplishments: Restored deteriorated High Speed Test Track (HSTT) building. Renovated ba era building at the Central Inertial Guidance Test Facility (CIGTF). Repaired a from munitions facility to aircraft. Installed a backup set of slip rings for the Ce Facility 3-Axis Tables (Axis 1 and 3 on 53Y) to meet test support requirements during test support. Continued upgrade of the Landing Gear Test Facility (LG system. The computer used for this system is obsolete (early 1990's vintage). Also replaced the LGTF 120 Dynamometer mandrel carrier control system for is essential to the continuation of the LGTF's aircraft tire testing mission.	and improved road used to transport weapons entral Inertial and Global Positioning System Test and to mitigate risk should the current slip rings fail TF) 168i Dynamometer control and data acquisition and replacement parts cannot be easily acquired.				
FY 2015 Plans:  Upgrade and remodel calibration pit at National Radar Cross Section Test Fac Dynamometer at the Landing Gear Test Facility (LGTF). Install structures to s Guidance Test Facility (CIGTF). Upgrade trackside rainfield system to include to better maintain constant pressures at nozzles at Holloman High Speed Test Advanced Measurement System Fiber Optic replacement; Replace the hydrau Facility (LGTF) Baldwin Load Press; Continue effort to replace the obsolete manufacture and programments.	chelter High Power Jammers at Central Inertial e pressure control points and monitors as needed t Track; begin design of Radar Cross Section ulic package that powers the Landing Gear Test				
FY 2016 Plans: Implement plan to replace Radar Cross Section Advanced Measurement Systems	em Fiber Optics.				
Title: Facility restoration and modernization at the 96 TW		2.387	1.210	2.10	
Description: Facility restoration and modernization at the 96th TW.					
FY 2014 Accomplishments:  Constructed concrete berms under Air Management Unit-1 (AMU-1) at Climatic Evaluation Facility (GWEF) to support infrared (IR) test. Installed 3-phase pow					

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
components throughout the Range complex. Replaced damaged/obsolete site and damaged security signs and fences, corroded/rotten stairs, etc.	e wiring and electrical distribution systems, missing			
FY 2015 Plans: Conduct many small R&M projects throughout Range complex (Safety, Securi construction Test Building replacement, etc.).	ty, Electrical, Plumbing upgrades, Minor			
FY 2016 Plans: Continue Range Environmental Protection and small Restoration and Modernia	zation (R&M) efforts across the range complex.			
Title: Facility restoration and modernization at AEDC		36.640	43.566	33.30
Description: Facility restoration and modernization at AEDC.				
FY 2014 Accomplishments:  Continued to recertify Pressure and Hazardous Material Systems(PHMS). Protemperature scanners. Upgraded power distribution and control for arc heater Facility (VKF) cooler #HPA-HE1-VU (111) and compressor C111. Replaced th SL-2, SL-3 and T-4. Refurbished C-Plant hydraulic systems 1-6 and 9-18. Refilled transformer health by re-gasketing, re-furbishing controls, and painting; I brine refrigeration systems; Continued work on replacing aging H2 (ARC) Diffucompressors; Restored test network computers to current computer technology.	model positioning system. Replaced Von Karman nrottles in engine test cells C-1, C-2, J-1, J-2, efurbished 161kV transformers. Sustained oil-Replaced the C-Plant RC1 and RC2 second stage user; Replaced C1 Spacers in windtunnel 16T			
FY 2015 Plans: Continue FY14 efforts not completed or that were multiyear. Continue upgrade Exhaust Test Facility. Continue planning to improve the exhaust plant cooling tunnel Foreign Object Damage (FOD) fix effort. Improve balances and calibrate plant system life extension program - ensure A/B exhaust system is operational replacement; Refurbish C Plant mechanical and electrical systems; Continue of Propulsion Wind Tunnel 83,000 HP Motors M4 and M1.	systems. Continue work to improve the 16T wind tion systems. Begin planning for AB Exhaust al until strategic direction is executed relative to			
FY 2016 Plans: Continue FY15 efforts not completed or that were multiyear, including major se exhaust plants.	ervice life extension efforts on wind tunnels and			
Title: Facility restoration and modernization at 412 TW		4.306	1.748	4.36
<b>Description:</b> Facility restoration and modernization at the 412 TW.				

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F. Performance Metrics  Please refer to the Performance Base Budget Overview Book for information Force performance goals and most importantly, how they contribute to our mi		sources are contributing to Air				

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